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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/449,649	11/30/1999	JOSEPH J. NAJDA	NAJDA-2-8-1	6532
7590 11/10/2003			EXAMINER:	
FRANK CHAU			VOLPER, THOMAS E	
F CHAU & ASSOCIATES LLP 1900 HEMPSTEAD TURNPIKE SUITE 501			ART UNIT	PAPER NUMBER
EAST MEADOW, NY 11554			2665	
			DATE MAILED: 11/10/2003	3

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)
	_	09/449,649	NAJDA ET AL.
•	Office Action Summary	Examiner	Art Unit
		Thomas Volper	2665
	The MAILING DATE of this communication	n appears on the cover sheet wi	th the correspondence address
riod f	or Reply		
THE - External control	IORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT ensions of time may be available under the provisions of 37 (or SIX (6) MONTHS from the mailing date of this communicate e period for reply specified above is less than thirty (30) days of period for reply is specified above, the maximum statutory ture to reply within the set or extended period for reply will, but the period for reply will be the period for rep	CFR 1.136(a). In no event, however, may a roion.  5, a reply within the statutory minimum of thir period will apply and will expire SIX (6) MON	eply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
tatus	Responsive to communication(s) filed of	n 14 August 2003 .	
1) 🖂	2h\r	☐ This action is non-final.	
2a) <u> </u>	This action is <b>FINAL</b> . 2b)  Since this application is in condition for	allowance except for formal ma	atters, prosecution as to the merits is
3) isposi	closed in accordance with the practice ition of Claims	under Ex parte Quayle, 1935 C	D. 11, 453 O.G. 213.
	Claim(s) <u>1-23</u> is/are pending in the app	ication.	
1/12	4a) Of the above claim(s) is/are w	rithdrawn from consideration.	
5)[	Tara allowed		
6)∑			
<b>7</b> \□	Claim(s) is/are objected to.		
/)∟ 0\□	Claim(s) are subject to restriction	and/or election requirement.	
	ation Papers		
	☐ The specification is objected to by the E	xaminer.	
9)∟ 10)Г	The drawing(s) filed on is/are: a)	accepted or b)[ objected to by	the Examiner.
	's unligent may not request that any object	ion to the drawing(s) be held in abo	eyance. See 37 CFR 1.03(a).
11)[	The proposed drawing correction filed o	n is: a)□ approved b)□	disapproved by the Examiner.
11)[	If approved, corrected drawings are requi	red in reply to this Office action.	
12\[	The oath or declaration is objected to by	the Examiner.	
	y under 35 U.S.C. §§ 119 and 120		
Priorii	Acknowledgment is made of a claim fo	r foreign priority under 35 U.S.C	C. § 119(a)-(d) or (f).
13)[			
	a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority do	ocuments have been received.	
	Certified copies of the priority do     Certified copies of the priority do	ocuments have been received in	n Application No
	<ul><li>2. ☐ Certified copies of the photoly do</li><li>3. ☐ Copies of the certified copies of</li></ul>	the priority documents have be	en received in this National Stage
	application from the Internal	for a list of the certified copies r	not received.
14)[	Acknowledgment is made of a claim for	domestic priority under 35 U.S	.C. § 119(e) (to a provisional application
	a)  The translation of the foreign lang Acknowledgment is made of a claim fo	uage provisional application ha	s been received.
l	ment(s)		
1) 🛛	Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PT Information Disclosure Statement(s) (PTO-1449) Pa	O-948) 5) Notice	iew Summary (PTO-413) Paper No(s) e of Informal Patent Application (PTO-152) :
	t and Trademark Office		Part of Paper No. 8

Application/Control Number: 09/449,649

Art Unit: 2665

### **DETAILED ACTION**

## Allowable Subject Matter

1. The indicated allowability of claims 1-23 is withdrawn in view of the newly discovered reference(s) to Kubo et al. (US 5,636,215). Rejections based on the newly cited reference(s) follow.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kubo et al. (US 5,636,215) in view of Huggins et al. (US 6,198,744).

Regarding claims 1, 10 and 19, Kubo discloses a plurality of remote terminals being connected by a ring with two paths which transfer signals in opposite directions relative to each path (see Figure 29). Cell switch (70) in Figure 27, and ATM interface (72) in Figure 28 represent the first multiplexer and asynchronous feeder multiplexer, respectively, of the present invention. Kubo discloses replacing components of signals on the first path, wherein the signal components are represented by cells, with copies of components of signals on the second path such that at any location in the network both paths provide all signals (col. 16, lines 6-47). Kubo also discloses cell selection devices (75a and 75b) that either discard a cell or send a cell to an

Application/Control Number: 09/449,649

Art Unit: 2665

ATM terminal (13a) via a multiplexing unit (76) (col. 16, lines 26-33). Furthermore, the node equipment (73) chooses one path from which to receive cells based on, for example, the path having a reduced delay time (col. 16, lines 39-45). This chosen path represents the path with the best available signal, as in the present invention. Kubo fails to expressly disclose a central office for feeding duplicate signals on each path. Huggins discloses a central office (16 of Fig. 1) connected to an optical ring. The central office can statistically multiplex multiple data signals from various host digital terminals (38 of Fig. 1) into a data signal for transmission onto the ring (col. 2, lines 60-64). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to provide a central office as one of the nodes in the ring network of Kubo that would feed duplicate signals along both paths on the ring. One of ordinary skill in the art would have been motivated to do this to control the flow of traffic onto the ring from terminals connected to a node acting as a central office.

Regarding claims 2-5, 11-14 and 20-23, as mentioned above, Kubo discloses cell selection units (75a and 75b), representing the protection logic of the present invention, that chose to either discard or select a cell. The path that is chosen from which to select a cell is based on the path having a reduced delay time, which is a measure of signal quality. In addition, the signal may be selected based on whether a loss of signal has been determined for one of the paths (see Figure 23). Kubo also shows that cells from each path may be chosen to form a composite output signal. This capability is demonstrated by the multiplexing unit (76) connection to the two cell selection units (75a and 75b) inside each ATM interface (72) (see Figure 28).

Application/Control Number: 09/449,649

Art Unit: 2665

Regarding claims 6, 7, 9, 15, 16 and 18, Kubo discloses a ring that uses SDH technology (see Figure 26). It is well known that SDH is analogous to SONET, and that the basic data transfer vehicle of SONET is STS-1. In addition, the basic level of transport, STS-1, relates to a DS3 capacity.

Regarding claims 8 and 17, Kubo et al. in view of Huggins et al. fails to expressly disclose using metallic channels to form the first and second paths of a ring. It is well known in the art to use metallic channels to conduct electrical signals. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use metallic channels to form the ring in the teaching of Kubo et al. in view of Huggins et al. One of ordinary skill in the art would have been motivated to do this in the case that optical technology was not available.

### Conclusion

4. Any inquiry concerning this communication, or earlier communications from the examiner should be directed to Thomas Volper whose telephone number is 703-305-8405 and fax number is 703-746-9467. The examiner can normally be reached between 8:30am and 6:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu, can be reached at 703-308-6602. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4750.

Application/Control Number: 09/449,649 Art Unit: 2697

Page 5

Thomas E. Volper

October 29, 2003

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